

INFORMATION DISCLOSURE CITATION

PTO-1449

DEC 26 2000

ATTY. DOCKET NO.
A-67489-1/RFT/
RMS/RMKSERIAL NO:
09/472,657APPLICANT:
KAYYEMFILING DATE:
December 27, 1999GROUP
3785

1634

U.S. PATENT DOCUMENTS

EXAMINER'S INITIALS		PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
u	✓	1 4,707,352	11/17/87	Stavrianopoulos			
	✓	2 4,707,440	11/1987	Stavrianopoulos	435	6	
	✓	3 4,711,955	12/8/87	Ward et al.			
	✓	4 4,755,458	7/5/88	Rabbani et al.			
	✓	5 4,849,513	7/18/89	Smith et al.	536	27	
	✓	6 4,868,103	9/19/89	Stavrianopoulos et al.			
	✓	7 4,894,325	1/16/90	Englehardt et al.			
	✓	8 4,943,523	7/24/90	Stavrianopoulos			
	✓	9 4,952,685	8/28/90	Stavrianopoulos			
	✓	10 4,994,373	2/19/91	Stavrianopoulos			
	✓	11 5,002,885	3/26/91	Stavrianopoulos			
	✓	12 5,013,831	5/7/91	Stavrianopoulos			

FOREIGN PATENT DOCUMENTS

EXAMINER'S INITIALS		PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
							Yes	No
u	✓	13 0 63879	11/3/82	Europe /				
	✓	14 92/10757	6/25/92	PCT (WO) ✓				
	✓	15 0 234938	2/26/87	EP (A2) ✓				
	✓	16 93/10267	PCT					

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER	26 u	DATE CONSIDERED	1/11/2003
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

8085 1449A-FRM (8/89)

INFORMATION DISCLOSURE CITATION

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3796 1634

U.S. PATENT DOCUMENTS

EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
<i>W</i>	17	6,082,830	1/21/92	Brakel et al.		
<i>✓</i>	18	5,175,269	12/29/92	Stavrianopoulos		
<i>✓</i>	19	5,241,060	8/31/93	Englehardt et al.		
<i>✓</i>	20	5,278,043	1/11/95	Bannwarth et al.	536	23.1
<i>✓</i>	21	5,312,527	5/17/94	Mikkelsen et al.	204	153.12
<i>✓</i>	22	5,328,824	7/12/94	Ward et al.		
<i>✓</i>	23	5,449,767	9/12/95	Ward et al.		
<i>✓</i>	24	5,472,881	12/95	Beebe et al.	436	94
<i>✓</i>	25	5,476,928	12/19/95	Ward et al.		
<i>✓</i>	26	5,595,908	1/21/97	Fawcett et al.	435	287.2
<i>✓</i>	27	5,565,552	10/15/96	Magda et al.	534	11
<i>✓</i>	28	5,573,906	11/12/96	Bannwarth et al.	435	6
<i>✓</i>	29	5,591,578	1/7/97	Meade et al.	435	6
<i>✓</i>	30	5,601,982	2/1997	Sargent et al.	435	6

FOREIGN PATENT DOCUMENTS

EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						Yes	No
<i>W</i>	31	2 090904	9/24/93	CANADA	<i>✓</i>		
<i>✓</i>	32	0 599337	1/16/94	EPO	<i>✓</i>		
<i>✓</i>	33	238,166	1988	JP (Abstract (63-238166))	<i>✓</i>		
<i>✓</i>	34	0 229943	7/29/87	EP	<i>✓</i>		
<i>✓</i>	35	96/40712	12/19/96	WO	<i>✓</i>		

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8095 1449A.FRM (8/95)

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DOMESTIC PATENT DOCUMENTS

EXAMINER'S INITIALS		PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
<i>W</i>	✓	36	4,840,893	6/20/89	Hill et al.	435 6	
	✓	37	5,403,451	4/4/95	Riviello et al.	204 153.1	
	✓	38	5,620,850	4/15/97	Bamdad et al.	530 300	
	✓	39	5,780,234	7/14/98	Meade et al.	435 6	
	✓	40	5,770,369	6/23/98	Meade et al.	435 6	
	✓	41	5,705,348	1/6/98	Meade et al.	435 6	
	✓	42	5,824,473	10/1998	Meade et al.	435 6	

FOREIGN PATENT DOCUMENTS

EXAMINER'S INITIALS		PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
							Yes	No
<i>W</i>		43	0515615	9/4/96	EP (UK)			
	✓	44	97/01646	1/16/97	WO			
	✓	45	93/23425	11/25/93	WO			
	✓	46	90/05732	5/31/90	WO			
	✓	47	6-41183	2/15/94	JP		X	
	✓	48	93/22678	11/1993	PCT			
	✓	49	97/44651	11/1997	PCT			
	✓	50	98/35232	8/1998	PCT			

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER	<i>W</i>	DATE CONSIDERED	7/11/2003
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8065 1445A-7RM (10/95)

INFORMATION DISCLOSURE CITATION

PTO-1449

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U.S. PATENT DOCUMENTS

EXAMINER'S INITIALS		PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
<i>W</i>		51	5,776,672	7/1998	Hashimoto et al.		
	✓	52	5,952,172	9/1999	Meade et al.		
	✓	53	5,552,270	9/1996	Khrapko et al.		
	✓	54	5,741,700	4/1998	Ershov et al.		
	✓	55	5,770,721	6/1998	Ershov et al.		
	✓	56	5,851,772	12/1998	Mirzabekov et al.		
	✓	57	5,756,050	5/1998	Ershov et al.		
				X			

FOREIGN PATENT DOCUMENTS

EXAMINER'S INITIALS		PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
							Yes	No
<i>W</i>	✓	58	95/15971	6/1995	PCT	✓		
	✓	59	94/22889	10/1994	PCT	✓		
	✓	60	98/20162	5/1998	PCT	✓		
	✓	61	99/14596	3/1999	PCT	✓		
	✓	62	99/67425	12/1999	PCT	✓		
	✓	63	98/28444	7/1998	PCT	✓		
	✓	64	98/27229	6/1998	PCT	✓		
	✓	65	97/27329	7/1997	PCT	✓		
				X				
EXAMINER	<i>W</i>			DATE CONSIDERED	<i>7/1/99</i>			

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5085 1449A.FRM (6/95)

INFORMATION DISCLOSURE CITATION PTO-1449		ATTY. DOCKET NO. A-67499-1/RFT/ RMS/RMK	SERIAL NO: 09/472,657
		APPLICANT: KAYYEM	
		FILING DATE: December 27, 1999	GROUP 3736 1634
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u	X	66	Alleman, K.S., et al., "Electrochemical Rectification at a Monolayer-Modified Electrode," <i>J. Phys. Chem.</i> , 100:17050-17058 (1996).
	X	67	Arkin et al. "Evidence for Photoelectron Transfer Through DNA Intercalation," <i>J. Inorganic Biochem. Abstracts</i> , 6th International Conference on Bioinorganic Chemistry, 51(1) & (2):526 (1993).
	X	68	Barisci et al., "Conducting Polymer Sensors," <i>TRIP</i> , 4(9):307-311 (1996).
	X	69	Baum, R. M., "Views on Biological, Long-Range Electron-Transfer Stir Debate," <i>C&EN</i> , pp 20-23 (1993).
	X	70	Bechtold, R., et al., "Ruthenium-Modified Horse Heart Cytochrome c: Effect of pH and Ligation on the Rate of Intramolecular Electron Transfer between Ruthenium(II) and Heme(III)," <i>J. Phys. Chem.</i> , 90(16):3800-3804 (1986).
	✓	71	Bidan, "Electroconducting conjugated polymers: new sensitive matrices to build up chemical or electrochemical sensors. A Review," <i>Sensors and Actuators</i> , B6:45-56 (1992).
	✓	72	Biotechnology and Genetics: Genetic Screening Integrated Circuit," <i>The Economist</i> (February 25-March 3, 1995).
	X	73	Boguslavsky, L. et al., "Applications of redox polymers in biosensors," <i>Solid State Ionics</i> , 60:189-197 (1993).
	X	74	Bowler, B. E., et al., "Long-Range Electron Transfer in Donor (Spacer) Acceptor Molecules and Proteins," <i>Progress in Inorganic Chemistry: Bioinorganic Chemistry</i> , 38:269-322 (1990).
	X	75	Brun, A. M., et al., "Photochemistry of Intercalated Quaternary Diazaaromatic Salts," <i>J. Am. Chem. Soc.</i> , 113:8153-8159 (1991).
	X	76	Bumm, et al., "Are Single Molecular Wires Conducting?," <i>Science</i> 271:1705-1707 (1996).
	X	77	Cantor, C.R. et al., "Report on the Sequencing by Hybridization Workshop," <i>Genomics</i> , 13:1378-1383 (1992).
	X	78	Chang, I-Jy, et al., "High-Driving-Force Electron Transfer in Metalloproteins: Intramolecular Oxidation of Ferrocycytochrome c by Ru(2,2'-bpy) ₂ (Im)(His-33) ³⁺ ," <i>J. Am. Chem. Soc.</i> , 113:7056-7057 (1991).
	X	79	Chidsey, C.E.D., et al., "Free Energy and Temperature Dependence of Electron Transfer at the Metal Electrolyte Interface," <i>Science</i> , 251:919-923 (1991).
	✓	80	Chidsey, et al., "Coadsorption of Ferrocene-Terminated and Unsubstituted Alkanethiols on Gold" Electroactive Self-Assembled Monolayers," <i>J. Am. Chem. Soc.</i> , 112:4301-4306 (1990).
	X	81	Chrisey, et al., "Covalent attachment of synthetic DNA to self-assembled monolayer films," <i>Nucleic Acids Research</i> , 24(16):3031-3039 (1996).
	X	82	Clery, "DNA Goes Electric," <i>Science</i> , 267:1270 (1995).
	X	83	Commerce Business Daily Issue of September 26, 1996 PSA#1688.
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Tule in		7/6/2003	

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OTHER DOCUMENTS Including Author, Title, Date, Permalink, Pages, Etc.

u✓	85	Davis, L. M., et al., "Electron Donor Properties of the Antitumor Drug Amsacrine as Studied by Fluorescence Quenching of DNA-Bound Ethidium," <i>Chem.-Biol. Interactions</i> , 62:45-58 (1987).
X	86	Davis, L. M., et al., "Elements of biosensor construction," <i>Enzyme Microb. Technol.</i> 17:1030-1035 (1995).
X	87	Degani et al., "Direct Electrical Communication between Chemically Modified Enzymes and Metal Electrodes. 2. Methods for Bonding Electron-Transfer Relays to Glucose Oxidase and D-Amino-Acid Oxidase," <i>J. Am. Chem. Soc.</i> 110:2615-2620 (1988).
X	88	Degani, Y., et al., "Electrical Communication between Redox Centers of Glucose Oxidase and Electrodes via Electrostatically and Covalently Bound Redox Polymers," <i>J. Am. Chem. Soc.</i> , 111:2357-2358 (1989).
X	89	Degani, Y., et al., "Direct Electrical Communication between Chemically Modified Enzymes and Metal Electrodes. 1. Electron Transfer from Glucose Oxidase to Metal Electrodes via Electron Relays, Bound Covalently to the Enzyme," <i>J. Phys. Chem.</i> , 91(6):1285-1288 (1987).
X	90	Deinhammer, R.S., et al., "Electrochemical Oxidation of Amine-containing compounds: A Route to the Surface Modification of glassy carbon electrodes," <i>Langmuir</i> , 10:1308-1313 (1994).
X	91	Dreyer, G. B., et al., "Sequence-specific cleavage of single-stranded DNA: Oligodeoxynucleotide-EDTA-Fe(II)," <i>Proc. Natl. Acad. Sci. USA</i> , 82:968-972 (1985).
X	92	Durham, B., et al., "Photoinduced Electron-Transfer Kinetics of Singly Labeled Ruthenium Bis(bipyridin) Dicarboxy-bipyridine Cytochrome c Derivatives," <i>Biochemistry</i> , 28:8659-8665 (1989).
X	93	Durham, B., et al., "Electron-Transfer Kinetics of Singly Labeled Ruthenium(II) Polypyridine Cytochrome c Derivatives," <i>Advances in Chemistry Series</i> , 226:181-193 (1990).
X	94	Elias, H., et al., "Electron-Transfer Kinetics of Zn-Substituted Cytochrome c and Its Ru(NH ₃) ₅ (Histidine-33) Derivative," <i>J. Am. Chem. Soc.</i> , 110:429-434 (1988).
X	95	Farver, O., et al., "Long-range intramolecular electron transfer in azurins," <i>Proc. Natl. Acad. Sci. USA</i> , 86:6988-6992 (1989).
X	96	Fox, L. S., et al., "Gaussian Free-Energy Dependence of Electron-Transfer Rates in Iridium Complexes," <i>Science</i> , 247:1069-1071 (1990).
X	97	Fox, M. A., et al., "Light-Harvesting Polymer Systems," <i>C&EN</i> , pages 38-48 (March 15, 1993).
X	98	Francois, J.-C., et al., "Periodic Cleavage of Poly(dA) by Oligothymidylates Covalently Linked to the 1,10-Phenanthroline-Copper Complex," <i>Biochemistry</i> , 27:2272-2276 (1988).
X	99	Friedman, A. E., et al., "Molecular 'Light Switch' for DNA: Ru(bpy) ₃ (dppz) ²⁺ ," <i>J. Am. Chem. Soc.</i> , 112:4960-4962 (1990).
✓	100	Fromherz, P., et al., "Photoinduced Electron Transfer in DNA Matrix from Intercalated Ethidium to Condensed Methyviologen," <i>J. Am. Chem. Soc.</i> , 108:5361-5362 (1986).
✓	101	Gardner, et al., "Application of conducting polymer technology in microsystems," <i>Sensors and Actuators</i> , A51:57-66 (1995).
✓	102	Gregg, B. A., et al., "Cross-linked redox gels containing glucose oxidase for amperometric biosensor applications," <i>Anal. Chem.</i> , 62:258-263 (1990).
✓✓	103	Gregg, B. A., et al., "Redox Polymer Films Containing Enzymes. 1. A Redox-Conducting Epoxy Cement: Synthesis, Characterization, and Electrocatalytic Oxidation of Hydroquinone," <i>J. Phys. Chem.</i> , 95:5970-5975 (1991).

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Page, Etc.)			
✓	104	Hashimoto, et al., "Sequence-Specific Gene Detection with a Gold Electrode Modified with DNA Probes and an Electrochemically Active Dye," <i>Anal. Chem.</i> 66:3830-3833 (1994).	
✓	105	Hegner, et al., "Immobilizing DNA on gold via thiol modification for atomic force microscopy imaging in buffer solutions," <i>FEBS</i> 336(3):452-456 (1993).	
✓	106	Heller, A., et al., "Amperometric biosensors based on three-dimensional hydrogel-forming epoxy networks," <i>Sensors and Actuators</i> , 13-14:180-183 (1993).	
✓	107	Heller, A., "Electrical Wiring of Redox Enzymes," <i>Acc. Chem. Res.</i> , 23:128-134 (1990).	
✓	108	Heller et al., "Fluorescent Energy Transfer Oligonucleotide Probes," <i>Fed. Proc.</i> 46(6):1968 (1987) Abstract No. 248.	
✓	109	Ho "DNA-Mediated Electron Transfer and Application to 'Biochip' Development," <i>Abstract. Office of Naval Research</i> (Report Date: July 25, 1991) 1-4, RR04106.	
✓	110	Hobbs et al., "Polynucleotides Containing 2'-Amino-2'-deoxyribose and 2'-Azido-2'-deoxyribose," <i>Biochemistry</i> , 12(25):5138-5145 (1973).	
✓	111	Hsung, et al., "Synthesis and Characterization of Unsymmetric Ferrocene-Terminated Phenylethynyl Oligomers," <i>Organometallics</i> , 14:4808-4815 (1995).	
✓	112	Hsung, et al., "Thiophenol Protecting Groups for the Palladium-Catalyzed Heck Reaction: Efficient Syntheses of Conjugated Arylthiols," <i>Tetrahedron Letters</i> , 36(26):4525-4528 (1995).	
✓	113	Jenkins et al., "A Sequence-Specific Molecular Light Switch: Tebbering of an Oligonucleotide to a Dipyrrophenazine Complex of Ruthenium (III), <i>J. Am. Chem. Soc.</i> , 114:8736-8738 (1992).	
✓	114	Katritzky, et al., "Pyridylethylation - A New Protection Method for Active Hydrogen Compounds," <i>Tetrahedron Letters</i> , 25(12):1223-1226 (1984).	
✓	115	Kelley, S.O. and J.K. Barton, "Electrochemistry of Methylene Blue Bound to a DNA-Modified Electrode," <i>Bioconjugate Chem.</i> , 8:31-37 (1997).	
✓	116	Kojima et al., "A DNA Probe of Ruthenium Bipyridine Complex Using Photocatalytic Activity," <i>Chemistry Letter</i> , pp 1889-1892 (1989).	
✓	117	Laviron, E., "A.C. Polarography and Faradaic Impedance of Strongly Adsorbed Electroactive Species. Part I: Theoretical and Experimental Study of a Quasi-Reversible Reaction in the Case of a Langmuir Isotherm," <i>J. Electroanal. Chem.</i> , 97:135-149 (1979).	
✓	118	Laviron, E., "A.C. Polarography and Faradaic Impedance of Strongly Adsorbed Electroactive Species. Part III: Theoretical Complex Plane Analysis for a Surface Redox Reaction," <i>J. Electroanal. Chem.</i> , 105:35-42 (1979).	
✓	119	Lee, et al., "Direct Measurement of the Forces Between Complementary Strands of DNA," <i>Science</i> , 266:771-773 (1994).	
✓	120	Lenhard, J.R., et al., "Part VII Covalent Bonding of a Reversible- Electrode Reactant to Pt Electrodes Using an organosilane Reagent" <i>J. Electroanal. Chem.</i> , 78:195-201 (1977).	
✓	121	Linkin "Identifying DNA by the Speed of Electrons," <i>Science News</i> , 147(18):117 (1995).	
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| <input checked="" type="checkbox"/> | 124 | McGe, et al., "2'-Amino-2'-deoxyuridine via an Intramolecular Cyclization of a Trichloroacetimidate," <i>J. Org. Chem.</i> , 61:781-785 (1996). |
| <input checked="" type="checkbox"/> | 125 | Meade, T. J., "Driving-Force Effects on the Rate of Long-Range Electron Transfer in Ruthenium-Modified Cytochrome c," <i>J. Am. Chem. Soc.</i> , 111:4353-4356 (1989). |
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| <input checked="" type="checkbox"/> | 127 | Mestel, "Electron Highway' Points to Identity of DNA," <i>New Scientist</i> , p. 21 (1995). |
| <input checked="" type="checkbox"/> | 128 | Millan, et al., "Voltammetric DNA Biosensor for Cystic Fibrosis Based on a Modified Carbon Paste Electrode," <i>Anal. Chem.</i> , 66:2943-2948 (1994). |
| <input checked="" type="checkbox"/> | 129 | Millan, K.M., et al., "Covalent Immobilization of DNA onto Glassy Carbon Electrodes," <i>Electroanalysis</i> , 4(10):929-932 (1992). |
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| <input checked="" type="checkbox"/> | 131 | Miller, C., "Absorbed ω -Hydroxy Thiol Monolayers on Gold Electrodes: Evidence for Electron Tunneling to Redox Species in Solution," <i>J. Phys. Chem.</i> , 95:877-886 (1991). |
| <input checked="" type="checkbox"/> | 132 | Murphy, C. J., et al., "Long-Range Photoinduced Electron Transfer Through a DNA Helix," <i>Science</i> , 262:1025-1029 (1993). |
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| <input checked="" type="checkbox"/> | 135 | Paterson, "Electric Genes: Current Flow in DNA Could Lead to Faster Genetic Testing," <i>Scientific American</i> , 33-34 (May 1995). |
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INFORMATION DISCLOSURE CITATION

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 SERIAL NO:
09/472,657

 APPLICANT:
KAYYEM

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December 27, 1999

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3736 1634

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INFORMATION DISCLOSURE CITATION

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 APPLICANT:
KAYYEM

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3756 1634

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INFORMATION DISCLOSURE CITATION

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APPLICANT:

Blackburn, G.

 FILING DATE:
July 20, 2000

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OTHER DOCUMENTS (including Author, Title, Date, Patent #, Pairs, Etc.)

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Application Number 09/427,657

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First Named Inventor Kayyem

Group Art Unit 3286 1634

Examiner Name Not Yet Assigned

Attorney Docket Number A-67499-1/RFT/RMS/RMK

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
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Examiner Initials*	Cite No. ¹	Foreign Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁴
		Office ³	Number ⁴ Kind Code ² (if known)				
<i>m</i>	20	WO	85/05815	Genetics International, Inc.	03/1985		
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Application Number	09/427,657
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Filing Date	December 27, 1999
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First Named Inventor	Kayyem
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Group Art Unit

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Attorney Docket Number	A-67499-1/RFT/RMS/RMK
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Application Number 09/427,657
Filing Date December 27, 1999
First Named Inventor Kayyem
Group Art Unit 320 1634
Examiner Name Not Yet Assigned
Attorney Docket Number A-67499-1/RFT/RMS/RMK

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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.

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